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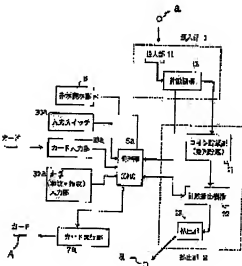
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(54) GAME CENTER COIN DEPOSITING DEVICE

(57)Abstract:

PURPOSE: To provide a device which automates a depositing/refunding work for game center coins at a game center.

CONSTITUTION: A coin depositing device is equipped with a depositing unit 1 which receives coins, refunding unit 2 which refunds the coins, input unit (image scanner) 32a for optical data of a palm print or finger print of a depositor, magnetic card issuing unit 7a, card input unit 33a and a processing unit 5a which performs a specified control processing. At the time of depositing, a magnetic card on which the optical data of a depositor and the number of deposited coins are recorded is issued. At the time of refunding, the confirmation of a depositor is performed by a comparison between the recorded data on the magnetic card and the optical data of that person, and a refunding to a person other than the depositor is made impossible.



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CLAIMS

[Claim(s)]

[Claim 1] the making a deposit section which consists of a counting mechanism of the coin injection section and the thrown-in coin, a coin stores dept., and coin — counting — with the expenditure section which consists of a discharge device and the coin expenditure section in which the ejection of coin is possible The input section which consists of an optical input device of the input device of a predetermined number code, palm print, or a fingerprint, Coin custody equipment for game centers characterized by having the memory section which makes predetermined data—hold, and the processing section which makes the motion control of the making a deposit section and the expenditure section, and data rewriting control of the memory section in the distinction list of the propriety based on input data.

[Claim 2] the making a deposit section which consists of a counting mechanism of the coin injection section and the thrown-in coin, a coin stores dept., and coin — counting — with the expenditure section which consists of a discharge device and the coin expenditure section in which the ejection of coin is possible The optical input section which consists of an optical input device of palm print or a fingerprint, and the card issue section which publishes the magnetic card which recorded making a deposit section data and input section data as magnetic memory on the occasion of making a deposit, Coin custody equipment for game centers characterized by having the card input section which performs data reading of said card, and the processing section which made the functional list which distinguishes the propriety of expenditure based on optical input section data and card data have the moving control function of the making a deposit section and the expenditure section.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to the coin custody equipment which keeps the coin only for the game centers concerned installed in a game center.

[0002]

[Description of the Prior Art] The game center is equipped with various kinds of game devices, and a player (customer) carries out the predetermined number injection of the coin concerned at a game machine to exchange and use for coin original with a game center, and it presents play with the game machine concerned. By the way, the play by the game machine may be canceled without there being also a device by which coin increases and returns depending on a game machine and using all the exchanged coin. Carrying out out of a game center is forbidden for coin in that case. That is, it is because coin possesses fixed monetary value, so transfer of the coin in the outside of a game center serves as a gamble action clearly forbidden by law.

[0003] So, when coin remains, the coin which kept in the game center and has been kept in the case of entrance of the next time of the person concerned is paid out, and procedure of this making a deposit expenditure is performed by the hand of the personnel of a game center.

[0004]

[Problem(s) to be Solved by the Invention] what must make the aforementioned coin making a deposit expenditure him who surely deposited -- it is -- him -- naturally expenditure of an except will become a gamble action. him by the personnel who the present condition performs making a deposit expenditure by human being's hand, and are engaged in making a deposit expenditure business -- it is checking. In order to fully automate this making a deposit expenditure business, when the automatic expenditure equipment currently used in the bank etc. more widely than old tends to be used, conventional automatic expenditure equipment By coincidence of the account number and a personal identification number, since a drawer person's propriety is distinguished, even if it applies said equipment to the deposit equipment of the coin for ** game centers, the transfer store outside accompanied by the notice of a personal identification number etc. is possible, and a gamble action cannot be prevented. Then, this invention proposes the custody equipment of the coin for game centers which pays out only him who surely deposited.

[0005]

[Means for Solving the Problem] The custody equipment of the coin for game centers concerning this invention the making a deposit section which consists of a counting mechanism of the coin injection section and the thrown-in coin, a coin stores dept., and coin -- counting -- with the expenditure section which consists of a discharge device and the coin expenditure section in which the ejection of coin is possible The input section which consists of an optical input device of the input device of a predetermined number code, palm print, or a fingerprint. It is characterized by having the memory section which makes predetermined data--hold, and the processing section which makes the motion control of the making a deposit section and the expenditure section, and data rewriting control of the memory section in the distinction list of the propriety based on input data.

[0006] Moreover, the optical input section to which the coin custody equipment concerning this invention serves as said making a deposit section and the expenditure section from the optical input device of palm print or a fingerprint, The card issue section which publishes the magnetic card which recorded making a deposit section data and input section data as magnetic memory on the occasion of making a deposit, It is characterized by having the card input section which performs data reading of said card, and the processing section which made the functional list which distinguishes the propriety of expenditure based on optical input section data and card data have the moving control function of the making a deposit section and the expenditure section.

[0007]

[Function] a deposit list -- expenditure -- facing -- him -- the data which caught the descriptions, such as his code number and palm print, optically perform a check, and a predetermined coin deposit and expenditure are performed, moreover, a deposit -- facing -- optical data, such as his palm print, -- depositing -- the number of coin -- a magnetic card -- recording -- the card concerned -- publishing -- him at the time of expenditure -- it checks by collating with optical data, such as his palm print, and the record data of a card.

[0008]

[Example] Next, the example of this invention is explained.

<First example> drawing 1 and drawing 2 are what showed the first example of this invention, and the custody equipment of the coin for game centers of this first example is equipment independent box type, and includes the making a deposit section 1, the expenditure section 2, the input section 3, the memory section 4, the processing section 5, the directions display 6, and the printing section 7 in the box body 8.

[0009] The making a deposit section 1 consists of a counting mechanism 12 which carries out counting of the thrown-in coin a to the coin injection section 11 prepared in the front face of the box body 8. The expenditure section 2 the coin which discharges the coin of a predetermined number from a stores dept. 21 by control of the coin stores dept. 21 which stores the thrown-in coin in the state of alignment, and the processing section 5 -- counting -- it becomes the discharge device 22 and the front face of the box body 8 from the coin expenditure section 23 which made ejection of coin possible.

[0010] from the keyboard 31 into which the input section 3 inputs a number code, and the image scanner 32 which detects an equipment user's palm print -- becoming -- the memory section 4 -- the input data of the aforementioned input section 3, and a counting mechanism 12 and coin -- counting -- making a deposit expenditure of the coin of the everybody by the discharge device 22 is recorded.

[0011] It is CPU equipped with the suitable throughput, and you may use the personal computer incorporated in the proper program, and the processing section 5 is a memory clear and the thing which performs drive control of the directions display 6, and drive control of the printing section 7 further to memory actuation of the making a deposit matter in distinction of coincidence of the number code input from the keyboard 31 of said input section 3 and the image data from an image scanner 32, and the case of further coincidence, or the operation list of expenditure.

[0012] It is the proper display machine formed in the box body 8, and the directions display 6 directs the procedure used to a user, and the printing section 7 is a receipt issue device, and it uses it for the check in the case of a deposit.

[0013] If those in whom it ** and use of said equipment tends to deposit coin deposit from a keyboard 31 and input a code with directions of the directions display 6, the directions display 6 directs an injection of the coin a to the injection section 11, and directs the input of a self code number (personal identification number), and to lay a palm to up to an image scanner 32 to a making a deposit person further.

[0014] If a making a deposit person carries out as said directions, counting of the thrown-in coin (making a deposit coin) a will be carried out, and it will record on the memory section 4 by making a making a deposit person's code number, palm-print image, and number of making a deposit coin into a lot. And from the printing section 8, the custody document of the shape of a

receipt which specified the code number and the number of making a deposit coin is published.
[0015] Next, after inputting the expenditure code by directions of a directions display similarly on the occasion of a repayment, while laying a palm on an image scanner 32 If a making a deposit person's code number and the coincidence of a palm-print image which were being recorded in the memory section 4 when the self code number was inputted from the keyboard 31 are checked, only the number of making a deposit will pay out of the expenditure section 23 the coin [making a deposit / coin], and a making a deposit person will enjoy the play in a game machine again in this coin.

[0016] therefore, a making a deposit person — a third person — the right of making a deposit coin — the outside of a store — free — it cannot transfer — surely — a making a deposit person — since expenditure of making a deposit coin cannot be performed if it is not him, there is no possibility that a gamble action may occur, and automation of making a deposit expenditure is realized.

[0017] in addition, the making a deposit person based on the input data with which this invention is not limited to said example, and especially this invention consists of an optical input device of the input device of a number code, palm print, or a fingerprint — if his coincidence can be checked, the concrete configuration of an expenditure device itself can be set to the making a deposit device list of coin at arbitration.

[0018] Although <second example> drawing 3 and drawing 4 are what showed the second example of this invention, the custody equipment of the coin for game centers of this second example is equipment of the box type which became independent like the first example and the same making a deposit section 1 as the first example, the expenditure section 2, and the directions display 6 are provided Without recording deposit data on the memory section, a magnetic card is published and a data requirement adopts the system recorded on the magnetic card concerned.

[0019] That is, processing section 3a other than said each device is included in input section 3a and a card issue section 7a list at body 8a. Input section 3a consists of input switch 31a for inputting the intention of those who are going to perform making a deposit expenditure of coin, image scanner (optical input section) 32a which detects an equipment user's palm print, and card input section 33a equipped with the card reader which reads the data of magnetic-card A.

[0020] Card issue section 7a is recorded on Card A by using the enumeration data of the making a deposit section 1 as magnetic memory, and publishes Card A to a making a deposit person at the data list of image scanner 32a.

[0021] Processing section 5a is CPU equipped with the suitable throughput, may use the personal computer incorporating a proper program, and distinguishes coincidence of the image data from an image scanner 32 from a card input section 33a input in the motion-control list of the aforementioned making a deposit section 1, the expenditure section 2, input section 3a, the directions display 6, and card issue section 7a.

[0022] Those in whom it ** and use of said equipment tends to deposit coin like the first example fundamentally indicate that equipment actuation is directed and the directions display 6 lays a palm in the injection list of the coin a to the injection section 11 from input switch 31a to up to image scanner 32a with directions of the directions display 6.

[0023] If a making a deposit person carries out as directions of said directions display 6, equipment will carry out counting of the thrown-in coin (making a deposit coin) a, will record the number of making a deposit coin on magnetic-card A with a palm-print image data, and will be published from issue section 7a.

[0024] Next, if operate input switch 31a by directions of the directions display 6 similarly, magnetic-card A published at the time of making a deposit is inserted in card input section 33a on the occasion of a repayment, magnetic rough record of the card concerned is read with a card reader and a palm is laid on image scanner 32 ** at coincidence, the palm-print data of the card concerned and coincidence of the palm-print image of image scanner 32a will be checked, and expenditure of making a deposit coin will be performed. Although the making a deposit coin total amount is sufficient as this expenditure, it is a signal from input switch 31a, it may leave the balance, may end expenditure and publishes the magnetic card which recorded optical data,

such as a making a deposit person's palm print, on the balance list in that case.

[0025] therefore , a making a deposit person -- a third person -- the right of making a deposit coin -- the outside of a store -- free -- it cannot transfer -- surely -- a making a deposit person -- since expenditure of making a deposit coin cannot be perform if it be he , it be what there be no possibility that a gamble action may occur , and automation of making a deposit expenditure realized , and there be ** and an advantage which do not need the memory section holding the optical data of a making a deposit person palm print or a fingerprint for equipment still like the first example .

[0026]

[Effect of the Invention] above -- this invention -- mechanization of a deposit of the coin for game centers -- facing -- him -- what used the optical data of palm print or a fingerprint for the check -- it is -- a making a deposit person -- him -- as expenditure of an except cannot be performed, generating of a gamble action is prevented, and automation of coin making a deposit expenditure business is attained.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The external view of the first example equipment of this invention.

[Drawing 2] The block diagram showing the configuration of this example equipment.

[Drawing 3] The external view of the second example equipment of this invention.

[Drawing 4] The block diagram showing the configuration of this example equipment.

[Description of Notations]

1 Making a Deposit Section

11 Injection Section

12 Counting Mechanism

2 Expenditure Section

21 Coin Stores Dept.

22 Counting --- Discharge Device

23 Expenditure Section

3 3a Input section

31 Keyboard

31a Input switch

32 32a Image scanner

33a Card input section

4 Memory Section

5 5a Processing section

6 Directions Display

7 Printing Section

7a Card issue section

8 8a Box body

[Translation done.]